



PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

1

of

7

**Complete If Known**

Application Number	10/602,555
Filing Date	06/23/2003
First Named Inventor	Lothar Kempen
Art Unit	2877
Examiner Name	Hoa Q. Pham
Attorney Docket Number	M-15218-3C US

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
HP		US- 2004/0023247A1	02-05-2004	Xu et al.	
HP		US- 2004/0012676A1	01-22-2004	Weiner et al..	
HP		US- 2004/0030504A1	02-12-2004	Helt et al.	
		US- 2004/0038268A1	02-26-2004	Pirung et al.	
		US- 2004/0002167A1	01-01-2004	Andersson et al.	
		US- 2002/0182717A1	12-05-2002	Karlsson	
		US- 2002/0154311A1	10-24-2002	Ivarsson	
		US- D472,644S	04-01-2003	Dawson et al.	
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		US- 6,143,574	11-07-2000	Karlsson et al.	
		US- 6,127,183	10-03-2000	Ivarsson et al.	
		US- 6,207,381B1	03-27-2001	Larsson et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>4</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
HP		WO 03/102580A1	12-11-2003	Saeften et al.		
HP		WO 03/056337A1	07-10-2003	Loefas		
HP		AU 742417	02-11-2000	Ivarsson		
HP		WO 98/32002	07-23-1998	Herbai et al.		
HP		WO 97/19375	05-29-1997	Ivarsson et al.		
HP		WO 96/38729	12-05-1996	Wahlstroem et al.		

Examiner Signature		Date Considered	11/4/04
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**INFORMATION DISCLOSURE  
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Sheet 2 of 7

**Complete if Known**

Application Number	10/602,555
Filing Date	June 23, 2003
First Named Inventor	Lothar Kempen
Art Unit	2877
Examiner Name	Hoa Q. Pham
Attorney Docket Number	M-15218-3CUS

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		Number-Kind Code <sup>2</sup> (if known)			
HQP		US- 2002/0019019 A1	02-14-2002	Hamalainen et al.	
		US- 6,143,513	11-07-2000	Loefas	
		US- 5,972,612	10-26-1999	Malmqvist et al.	
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		US- 6,008,893	12-28-1999	Roos et al.	
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		US- 5,593,130	01-14-1997	Hansson et al.	
		US- 5,965,456	10-12-1999	Malmqvist et al.	
		US- 5,641,840	06-24-1997	Hanning	
		US- 5,164,589	11-17-1992	Sjoedin	
		US- 5,313,264	05-17-1994	Ivarsson et al.	
		US- 5,573,956	11-12-1996	Hanning	
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		US- 5,922,604	07/13/1999	Stapleton et al.	
		US- 6,008,010	12/28/1999	Greenberger et al.	
		US- 6,045,996	04/04/2000	Cronin et al.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
HQP		WO 96/08720	03-21-1996	Sternesjoe et al.		

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HQP	11/4/04

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	3	of	7
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**Complete if Known**

<b>Application Number</b>	<b>10/602,555</b>
<b>Filing Date</b>	<b>June 23, 2003</b>
<b>First Named Inventor</b>	<b>Lothar Kempen</b>
<b>Art Unit</b>	<b>2877</b>
<b>Examiner Name</b>	<b>Hoa Q. Pham</b>
<b>Attorney Docket Number</b>	<b>M-15218-3CUS</b>

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete If Known**

Sheet	4	of	7	Application Number	10/602,555
				Filing Date	06/23/2003
				First Named Inventor	Lothar Kempen
				Art Unit	2877
				Examiner Name	Hoa Q. Pham
				Attorney Docket Number	M-15218-3C US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
AP		TADASHI SAITOH, ET AL. "Optical Characterization of Very Thin Hydrogenated Amorphous Silicon Films Using Spectroscopic Ellipsometry"; Japanese Journal of Applied Physics; Vol. 30, No. 11B, November 1991. pp. L1914-L1916	
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AP		BASS, ET AL. "Handbook of Optics", by The Optical Society of America; Vol. 1; Section 41.10; 1995 McGraw-Hill, Inc.	
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		DANNY VAN NOORT ET AL. "Monitoring Specific Interaction of Low Molecular Weight Biomolecules on Oxidized Porous Silicon Using Ellipsometry", Biosensors & Bioelectronics Vol. 13, No.3-4 pp. 439-449, 1998 Elsevier Science, S.A. Great Britain	
		GANG JIN ET AL. "Imaging Ellipsometry for Biosensor Applications" Transducers '95, Euroensors IX, Digest of Technical Papers Vol 2, Sessions A7-D13, Papers No 232-496 pp. 509-512, Stockholm, Sweden, June 1995	
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		Filing Date	06/23/2003
		First Named Inventor	Lothar Kempen
		Art Unit	2877
		Examiner Name	Hoa Q. Pham
Sheet 5 of 7	Attorney Docket Number	M-15218-3C US	

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1/8		JONSSON, ULF ET AL. "Biosensors Based on Surface Concentration Measuring Devices-The Concept of Surface Concentration" Progress in Colloid and Polymer Sci. Vol. 70, pp. 96-100, 1985	
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Sheet	6	of	7

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HP		HAKAN NYGREN ET AL. "Kinetics of Antibody-Binding to Surface-Immobilized Antigen: Influence of Mass Transport on the Enzyme-Linked Immunosorbent Assay (ELISA)", Journal of Colloid and Interface Science, Vol. 107, No. 2 pp. 560-566, October 1985 Academic Press, Inc.	
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HP		DR. RUDOLF OLDENBOURG "A new view on polarization microscopy", Nature, Vol. 381, pp.811-812, 27 June 1996	

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Sheet	7	of	7	Attorney Docket Number	M-15218-3C US

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IAF		CLIFFORD C. HOYT ET AL. "Structural analysis with quantitative birefringence imaging", American Laboratory, pp. 34-42, July 1999.	
IAF		DIRK HONIG ET AL. "Direct visualization of monolayers at the air-water interface by Brewster angle microscopy", J. Phys. Chem., pp. 4590 & 4592, 1991 American Chemical Society	
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IAF		GANG JIN ET AL. "A biosensor concept based on imaging ellipsometry for visualization of biomolecular interactions", Analytical Biochemistry 232, pp.69-72, 1995	
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IAF		CHRISTOPHER PALMER "Diffraction Grating Handbook", pp. 35-44, 2000 Richardson Grating Laboratory, Rochester, New York	
IAF		ERWIN G. LOEWEN "Diffraction Gratings, Ruled and Holographic", Applied Optics and Optical Engineering, Vol. IX, pp.33-71, Bausch and Lomb, Inc., Rochester, New York 1983 Academic Press, Inc.	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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